

## CLAIMS

What is claimed is:

- 1        1. An aerial video camera system comprising:
  - 2                a camera having electronic control by a universal-control computer that
  - 3                is positioned predeterminedly in an aircraft;
  - 4                the camera being attached to a pan-tilt head that is suspended rigidly
  - 5                from a base plate in a camera pod;
  - 6                a linear giro and a lateral giro affixed to the base plate for universal
  - 7                damping of vibration from the aircraft;
  - 8                the vibration from the aircraft being absorbed by a resilient mount
  - 9                intermediate the base plate and the camera pod that is attached to the aircraft;
  - 10               a transparent radome that is articulated and extended downwardly from
  - 11               a bottom of the camera pod for housing swivel panning and tilting view for the
  - 12               camera; and
  - 13               electronic-control communication having control lines intermediate the
  - 14               universal-control computer, the camera and the pan-tilt head.

- 1        2. The aerial video camera system of claim 1 wherein:
  - 2                the camera includes a digital camera from which a field of view of
  - 3                optical signal is transmitted to and shown on a monitor of the universal-control
  - 4                computer and available for recording and broadcasting.

1           3. The aerial video camera system of claim 1 wherein:  
2           the camera pod includes an attachment bracket that is articulated for  
3 attaching the camera to the aircraft with a wing-strut bolt proximate a junction of  
4 a bottom member of a lift wing and a wing strut of the aircraft.

1           4. The aerial video camera system of claim 3 wherein:  
2           the attachment bracket includes articulation for supporting the camera  
3 on a predetermined aircraft-camera support.

1           5. The aerial video camera system of claim 1 wherein:  
2           swivel panning of the camera on the pan-tilt head is horizontally  
3 rotational.

1           6. The aerial video camera system of claim 1 wherein:  
2           the camera pod includes a predeterminedly aerodynamic surface having  
3 an arcuate-airfoil forward portion, a pointedly narrow aft portion and the attachment  
4 bracket extended upwardly from a top surface; and  
5           the attachment bracket is sized and shaped to receive a portion of the  
6 wing-strut bolt.

1        7. The aerial video camera system of claim 1 wherein:  
2                the resilient mount includes counter-resilient fasteners having counter-  
3                resilient support of the base plate on the camera pod;  
4                the counter-resilient fasteners have top ends supported by a top of the  
5                camera pod and bottom ends positioned in support of a bottom resilient member  
6                under a bottom side of the base plate; and  
7                a top resilient member is positioned intermediate the camera pod and  
8                the base plate.

1        8. The aerial video camera system of claim 1 wherein:  
2                the universal-control computer includes joystick control of horizontally  
3                panning and vertically tilting of the camera on the pan-tilt head with a joystick.

1        9. The aerial video camera system of claim 1 wherein:  
2                the universal-control computer includes toggle-switching of power on  
3                and off with a toggle switch as indicated with a power LED.

1        10. The aerial video camera system of claim 1 wherein:  
2                the universal-control computer includes control of camera speed with  
3                a speed knob.

1       **11.** The aerial video camera system of claim 1 wherein:  
2                   the universal-control computer includes control of a plurality of camera  
3                   features of the camera and the digital camera with predetermined pushbuttons.

1       **12.** The aerial video camera system of claim 11 wherein:  
2                   the plurality of camera features include focus and zoom.

1       **13.** An aerial video camera system comprising:  
2                   a camera having electronic control by a universal-control computer that  
3                   is positioned predeterminedly in an aircraft;  
4                   a transparent radome that is articulated and extended downwardly from  
5                   the camera pod for housing swivel panning and tilting view for the camera; and  
6                   electronic-control communication having control lines intermediate the  
7                   camera and the universal-control computer.

1       **14.** The aerial video camera system of claim 13 wherein:  
2                   the camera is attached to the pan-tilt head that is suspended rigidly from  
3                   the base plate;  
4                   the linear giro and the lateral giro are affixed to the base plate for  
5                   universal damping of vibration from the aircraft; and  
6                   the vibration from the aircraft is absorbed by the resilient mount  
7                   intermediate the base plate and the camera pod that is attached to the aircraft.

1       **15.** The aerial video camera system of claim 14 wherein:

2                   the resilient mount includes counter-resilient fasteners having counter-  
3                   resilient support of the base plate on the camera pod;

4                   the counter-resilient fasteners have top ends supported by a top of the  
5                   camera pod and bottom ends positioned in support of a bottom resilient member  
6                   under a bottom side of the base plate; and

7                   a top resilient member is positioned intermediate the camera pod and  
8                   the base plate.

1       **16.** The aerial video camera system of claim 13 wherein:

2                   the camera includes a digital camera from which a field of view of  
3                   optical signal is transmitted to and shown on a monitor of the universal-control  
4                   computer and available for recording and broadcasting.

1       **17.** The aerial video camera system of claim 13 wherein:

2                   the camera pod includes an attachment bracket that is articulated for  
3                   attaching the camera to the aircraft with a wing-strut bolt proximate a junction of  
4                   a bottom member of a lift wing and a wing strut of the aircraft.

1       **18.** The aerial video camera system of claim 13 wherein:

2                   swivel panning of the camera on the pan-tilt head is full-circle  
3                   horizontally rotational.

1       **19.**   The aerial video camera system of claim 13 wherein:  
2                   the universal-control computer includes joystick control of horizontally  
3                   panning and vertically tilting of the camera on the pan-tilt head with a joystick.

1       **20.**   The aerial video camera system of claim 19 wherein:  
2                   the universal-control computer includes control of a plurality of camera  
3                   features of the camera.

1       **21.**   The aerial video camera system of claim 20 wherein:  
2                   the plurality of camera features include on-off switching, camera speed  
3                   camera focus and camera zoom.